

MODIS sensor Working Group (MsWG) Meeting Summary

May 6, 2009

Attendance: Gary Toller, Bill Barnes, Aisheng Wu, Junqiang Sun, Gene Eplee, Brian Wenny, James Kuyper, Eric Vermote, Hongda Chen, Jack Xiong, Gerhard Meister, Chris Moeller

Scheduled Agenda

Item 1: Recent L1B LUT delivery

- Terra forward update – 5.0.40.23 (05/06/09) – m1, RVS

Item 2: Instrument status

- Terra and Aqua MODIS are in nominal operations.
- The series of Aqua Inclination Adjustment Maneuvers is complete. All were performed successfully.
- Terra non-recoverable data loss – On day 116 (4/26) at ~13:45 Terra experienced a Science Formatting Equipment anomaly during spacecraft passage through the SAA region. The SSR stopped recording science data at this time and was re-enabled at 17:40:53.

Item 3: MCST recent activities

- Fire Product Anomaly Follow-up
 - As discussed at the last MsWG – Brian met with James to discuss strategy for implementing a code change to fix the anomaly in Collection 6. A straightforward fix will remove the anomalous scans from the b1 averaging. It is expected this can be completed by ~June before the start of C6 science testing.
 - Chris confirmed the problem also appears in the Cloud Mask product. The destriping algorithm causes the anomaly to impact all scans in the granule. It is expected that the proposed fix will correct these downstream effects.
 - Sadashiva (Land QA) requested the fix also be implemented in Collection 5. Once in place, the affected granules will be reprocessed. No objections to this proposal were expressed by those present. MCST will proceed to work with the L1B group to implement the code change in Collection 6 and produce test granules for the science team to test. If successful in correcting the anomaly, implementation of the code change in Collection 5 will be explored.
- Collection 6 Status update
 - L1B group currently working to finish the PGE01 code changes for geolocation product improvements: 1) altitude correction, 2) 500m resolution geolocation product.
 - MCST has completed a new Aqua Collection 6 LUT package at the request of the Ocean Color group to include the detector dependent $\Delta m1$ correction and RVS for Bands 13-16. A new Collection 6 LUT with the same improvements for Terra are under development.

Item 4: Around the Table

- Jack: Senior Review presentations at NASA HQ for Terra and Aqua are scheduled for next week (Tues. & Wed.). A decision regarding continued support for both platforms is expected by end of July. There is currently no schedule for the next MODIS Science Team meeting. MCST will hold an informal calibration workshop sometime in June to present updated instrument performance and Collection 6 information.
- Gerhard: Ocean Color group has noticed that the recent Aqua Band 8 water leaving radiance is ~10% too low (TOA radiance ~1% low). A meeting is scheduled to discuss this issue with MCST.

Next Meeting: ~May 20, 2009